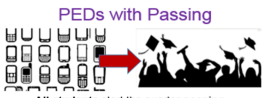
SWBAT

use the idea of Net Force

Sep 4-7:31 AM

Welcome!!!

SECA CP Physics
Thursday 11 February 2016

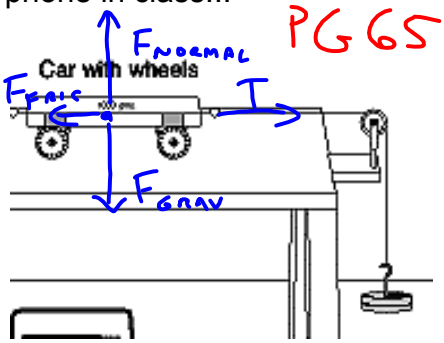


H. Leslie Grebe
Room C-244

Centering (music)

- Show me SchoolView if you want phone in class...
- PhET Forces in 1d
- Hmwk: Pg 63 notes + Packet!!!

PG 65



Opening Activity:

What forces are there on this car rolling along the table?

NORMAL
TENSION
FRICTION
GRAVITY

https://www.youtube.com/watch?v=zaGUr6wzyT8

https://www.youtube.com/watch?v=kEGuHdKn0Lc

http://www.aiohow.com/songs/g-herbo-aka-lil-herb-ls-clean.html

Sep 7-7:04 AM

PG 65

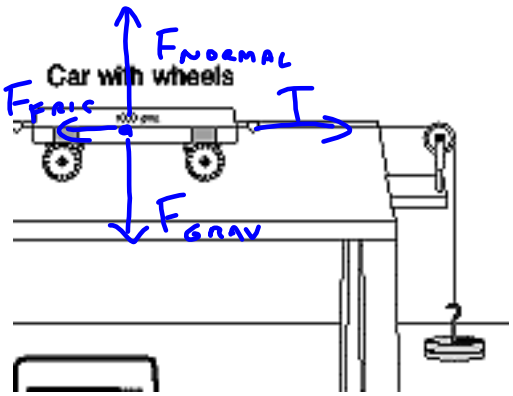
Things we know:

$F_{grav} = W = m * a_g$

Puller m = 50 g

Chunk m = 1000g = 1 kg

Cart m = 101.6g



Measure:

- distance on table
- time to travel from rest

Feb 11-10:19 AM

What we should have solid:

Memorize our ~~7~~ 8 vocab cards, units, vector or not, definition, formula

Be able to answer distance vs displacement questions

Be able to make measurements of real-life motion. Know what is likely to make timing things difficult and how to get more reliable timing results

Be able to convert between miles and meters, between hours, minutes, and seconds

Be able to calculate speed = dist/time and velocity = disp/time

Know what all of the symbols in the UAM equations stand for and mean

Be able to turn a UAM word problem into a list of knowns and unknowns

Be able to pick the equation with those 4 things in it

Be able to put the knowns into that equation

(Be able to solve for the unknown)

→ PROJECTILES: V_x IS CONSTANT; V_y CHANGES $a_y = -9.8 m/s^2$ PG 42

PG 43 TIME, Δt, CONNECTS X & y

PG 49 VECTORS INTO X & y, ADD VECTORS

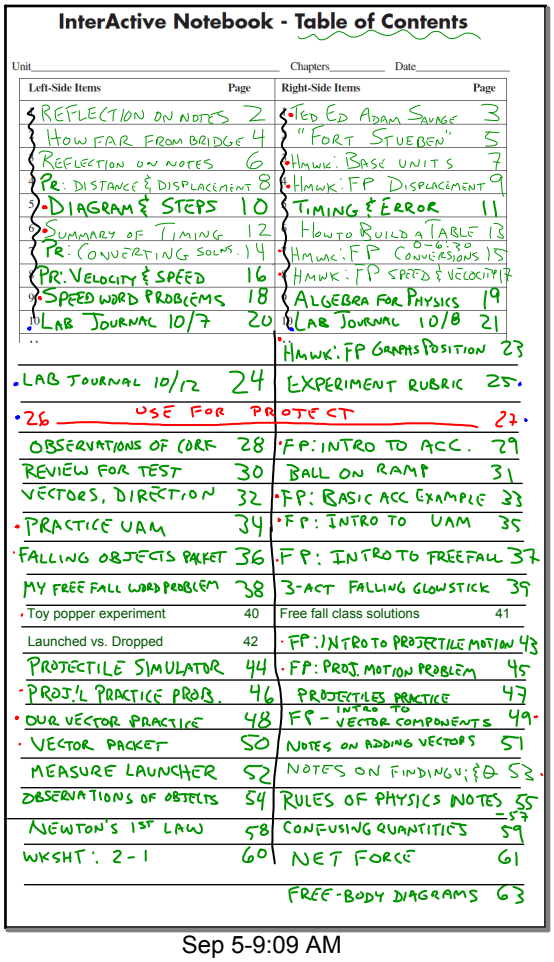
SOH -CAH -TOA

PG 59 DIFFERENCE BETWEEN MASS & WEIGHT

PG 61 NET FORCE

QW every day to review - gather responses to front board.

Dec 4-9:15 AM



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Sep 5-9:09 AM

Everyone get a stopwatch

- all to 0:00 00
- make it say a time, stop, reset
- 3,2,1,start.... 3,2,1,stop
- fastest you can start and stop?
- 3,2,1,drop ... stop when it hits the floor

Feb 10-12:05 PM

PG 11 TIMING & ERROR:

HOW TO REDUCE ERROR

- BIGGER / LONGER ⇒ EASIER
- SAME PERSON "RELEASE" ALSO STARTS TIMER
- REPEAT / TIME IT MANY TIMES & TAKE AVERAGE
- VIDEO RECORD OBJECT & TIMER

Feb 10-10:00 AM